ACHES TO QUAKES Sensitives Who Predict Earthquakes Suffer Pain and Ridicule

Mysterious Earth signals that are precursors to earthquakes and volcanic eruptions can be detected by "sensitives" whose physical symptoms can provide accurate warnings. Meanwhile, new technologies are being developed that can tune into these subtle energies.

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Physical symptoms and advance warnings

n the past five years, Suzanne Smart has endured two CAT scans, two EEGs, one audiogram and a host of other medical tests by specialists seeking to determine why she suffered from rare and mysterious migraines, screeching ear tones and intense ear pain. After a big earthquake, the symptoms would disappear.

"For years my family thought I was experiencing phantom symptoms," Suzanne said. "They encouraged me to seek medical advice."

After the litany of sophisticated tests, her doctor concluded her to be normal and healthy.

"Initially, I did tolerate a bit of ridicule and was the subject of many jokes over the past few years," she said. "I have been rather careful in whom I choose to engage in conversation on this subject. I generally only communicate with other sensitives," remarked Suzanne.

Such is the life of individuals who experience physical symptoms prior to earthquakes or volcanic eruptions. After initial ridicule and disbelief by others, a more powerful drive makes these sensitives seek to make their plight known to science. It is the guilt of killer earthquakes.

"The worst effect I've ever suffered as a sensitive has not been from the precursor symptoms I detect, but from the insecurity associated with my inability to know exactly where the epicentre is and the exact day and time," said Suzanne. "The reality is, sometimes people are going to die and sometimes there's very little if anything you can do about it."

Sensitives feel a responsibility to try to save the thousands of potential victims before the quake strikes. Afterwards comes a sense of guilt.

Family members started to believe when they found Suzanne's prediction accuracy remarkable. "However, lately they have occasionally and quietly asked me if I'm picking up anything for certain locations, particularly if it happens to be a vacation destination they are travelling to," she said.

Suzanne's doctor is now encouraging her. "At my last visit about a month ago [November 2005], she actually said that she thought it 'really neat' that I could hear these tones and experience these symptoms and try to use [them] to predict earthquakes to save lives," Suzanne said.

Reliable predictions from ear tones

Another "sensitive" is Petra Challus in northern California. Petra is out to show science that earthquakes can be reliably predicted by human body symptoms. She communicates with and coordinates a group of sensitives, who all experience internal "ear tones" prior to an earthquake, to help triangulate the epicentre. Undaunted by some seismologists' reactions to this research, Petra is determined and she is full of energy.

"My least favourite response to my reports of hearing this sound in person occurs when the person I'm speaking to leans their head back, thinks for a second, rolls their eyes and then says it's not possible," said Petra in an email. "Then I ask them to check my prediction record and they still don't believe it's possible to predict earthquakes by sound." Petra continued: "For the most part, even when I have made very accurate predictions, they normally say that I'm guessing despite giving clear details and accurate parameters on all of the required specifics, i.e., date, place and magnitude."

Petra issued a prediction prior to the Parkfield, California, earthquake of September 27,

2004. "In the late afternoon on 9/27/04, I heard a five-second right-ear tone. It had an earthy quality to it, and due to mapping for quite some time I knew this sound belonged to Parkfield, California," said Petra. "I had never heard a sound like that for Parkfield before, so I wasn't sure what the highest magnitude might be. So I set it at 4.8 and issued a public prediction on 9/27/04 at 8:54 pm," she added.

"The resulting earthquake was the long-awaited 6.0 occurring on 9/28/04 at 10:15 am, 11 hours after I made my prediction," she said. "This earthquake was expected for 38 years by scientists, and not one of their instruments detected anything prior to the earthquake. To date, I have not received credit from any of the Parkfield scientists for doing what they could not do with a budget in excess of \$40 million and 38 years of research."

Petra is refining the predictive formula behind the mysterious emissions that cause the internal sensation of ear tones. She has

found a formula that helps identify how far distant the epicentre will be located. The magnitude 6.8 Nisqually, Washington, earthquake of February 28, 2001, was the key to realisation of the formula.

"The most dramatic event I have experienced was hearing a 20-second left-ear tone on 02/28/01. This occurred two hours prior to the 02/28/01 10:55 am Nisqually 6.8 earthquake," Petra wrote. "I heard a very loud, highly electrical sound, much like one might imagine sound travelling through a fiber optic wire. On a scale of 1 to 5, this sound was easily a five. It was the loudest sound I've heard in six years," she said.

"Though I had no time to predict the earthquake prior to its occurrence, it was as a result of this event that I finally understood that by counting the seconds heard by the ear tone recipient, it measured the distance to the earthquake at 37.70 miles per second. This was the greatest breakthrough in predicting earthquakes using the method," she said. "Today, for ease in mapping, I use 37.5 miles per second of sound heard."

Petra Challus has found some scientists

interested in her research. Her ear-tone-sensitive group is participating in a study to determine the viability of her method.

"Our most promising time was last month [December 2005] when we had one miss and only one report expire [a prediction without a quake]," said Petra. "For us, that is phenomenal."

At the right [overleaf] is a recent map of ear tone rings to earthquake research plots from Petra Challus. The circle centre represents the location of the sensitive at the time of sensing the ear tone. The size of the circle represents the distance formula applied to the duration of tone. The colour code of the circle represents the particular person and the tonal direction sensed by the person in the research group. All predictions are documented prior to the earthquake(s).

Roller-wave sensations

Perhaps the most dramatic type of sensitive is one who can feel the earthquake's rolling precursory waves as sensations and can determine from which direction they are coming. Sandy Awerkamp in southern California is one of these "roller wave" sensitives, and her accuracy is uncanny.

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"Back in '97 I was still trying to figure out why these movements, which I now call waves, increase every time we are close to having a major earthquake," said Sandy. "After a couple of years of taking notes and correlating them to earthquakes, I knew then that these waves were in fact correlated."

"The most dramatic by far was the Northridge earthquake [January 17, 1994, M6.7] because of the lives that were lost," Sandy continued. "The Friday prior to the quake, my day had ended at work and I was about ready to walk out the door when I paused for a moment because I had gotten more dizzy. As I stood there for a second, my receptionist asked me what was wrong and I blurted out, 'You're going to think I'm crazy but LA is going to have a large quake within the next few days and the quake is going to be different.'

"She of course laughed at me, but she asked me how I knew and what I meant by saying a 'different' earthquake. I didn't

> know how to explain it to her that I get really dizzy before large earthquakes, but this time it was a dizzy feeling of being pushed hard from north of us, which pointed to LA," she said.

> "The following day after the earthquake I returned to work and I was greeted by her, saying 'Get away from me, psycho woman!' The look on her face and what she said made me realise from that day on that it really scared her and now she didn't look at me as the same person," said Sandy.

"Months prior to the Hector earthquake [October 16, 1999, M7.0], I got my first

computer and found a website where you could post predictions. It was the night of the Hector Mine earthquake that I posted my first public prediction calling for within 32 miles of Big Bear, 6+ magnitude, and within 24 hours. The instructions said that if you didn't put in a percentage it was considered 100%, so I didn't put a percentage in," she said. "That morning when we were jolted out of bed, I was fighting back tears."

Sandy continued: "The emotions at first were excited yet scared, because I finally made it public and I wasn't sure

how people would accept it. Those emotions shortly turned into being mad, because people were congratulating me by saying 'Nice hit!'. I didn't know how to respond to that because, in my eyes, predicting an earthquake isn't something to be proud of."

With her accuracy proven, Sandy is concerned with how others deal with information prior to a potential killer quake. She trusts her family with the information. "My family will periodically ask if there will be any earthquakes soon, but I ask them to keep any information to themselves because I know they can handle it and won't panic."

Sandy has concluded that posting her predictions isn't the way to go. "I've realised that posting predictions on a website isn't going to prove anything to the scientific world, so the last few years I have focused more on finding someone who has the right instruments that can detect these waves."

Earth emissions are real

For the past few years, I have studied and compared Sandy's sensing ability with specialised instruments that indeed see these waves prior to earthquakes.¹ Sandy exceeds the performance of

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the sensors by a factor of 100. She can sense and follow the directional emissions of the waves as they travel up and down the San Andreas fault, even though she is at a distance near southern Los Angeles. It has taken 13 years of development at Terra Research to create specialised electronic sensors that can detect the presence of these mysterious emissions, yet Sandy can easily point to an area and state the nature of the waves—whether "roller" or "jerky" waves—and the magnitude of the pending earthquake. I continue to marvel at the human body in how it can react to stimuli.

Wendy Park in Portland, Oregon, is also a roller-wave sensitive. She is a student in her second year in the RN nursing program at the University of Portland. As Wendy has been trained to read the FFT (fast Fourier transform) plots from the precursory seismic instruments at my research site, she is familiar with the phases of these types of Earth emissions. Wendy has the luxury of calling in to the lab when she is experiencing strong roller-wave sensations, since the instruments and data can confirm to her when the Earth is active. For other sensitives, it may take years before they realise their symptoms are connected with the Earth. Wendy's sensations also provide an ideal research comparison opportunity with instruments.

At the lab in northern Oregon, instruments run 24/7 and detect these Earth emissions in the Pacific Northwest. A secondary instrument system is connected between the utility power grid and the Earth's crust. This secondary system is energised in a special resonant state such that the Earth's crust and the power grid form a super-large antenna system stretching from southern California to Canada. Strong Earth precursor emissions are detectable even as far away as Alaska and the Aleutian chain. The effective antenna system looks into the Earth's crust. The size of the antenna is an equivalent 333,396 square miles. It is the largest antenna system on Earth. Distant, strong precursors will couple to the Earth's crust and then will enter into the antenna system indirectly.

The same unique character of ear tones that sensitives experience is reflected in the antenna system's recordings of the captured Earth emissions. Each latitude of the Earth has its own frequency and harmonics to the emissions. This character is revealed in a decomposition of the tones and the harmonics using spectrum analysis equipment that does FFTs.

Exploring the signals

So what is the nature of these mysterious Earth signals? Is it sound, or is it an electrical pulsing in the ear's cellular tissue that mimics sound?²

Researchers have encountered this same dilemma in a small percentage of people who experience a sensation of low rumbling or idling diesel-engine sounds in their ears in an area near Taos, New Mexico. It's called "the Taos Hum", and it was first noticed in the early 1990s. Scientists equipped with an array of sensitive instruments have found no sound nor electromagnetic signals to explain the symptoms. Yet the scientists have never doubted the existence of bouts of nausea, dizziness, headaches and ear tone symptoms that these "sensitives" experienced. A congressional investigation was conducted in 1993–94 into the cause of these mysterious emissions, but no conclusions were drawn. Other



Map of ear tone rings to earthquake research plots. (Source: Petra Challis)

reports and investigations have occurred in latter years, even as recently as 2005. To some sufferers, the emissions have been intensifying since 1999–2000.

Scientists will continue to be baffled as to the nature and existence of these emissions until they change the type of instruments they use to look for the signals. The signals are not sound; nor are they true radio waves. Current mainstream physics looks to sound waves and radio waves, as they seem to be the only explanations that still fit within popular physics. But using sensitive microphones or radio-wave-type sensors, whether magnetic or even electrostatic, means that finding the true, stealthy signals will only continue to be elusive.

Medical doctors are aware of a sudden onset of dizziness and nausea in patients when they move briskly while near the very powerful magnetic fields of the modern-day MRI (magnetic resonance imaging) machine.^{3,4} Yet the Earth signals do not have a powerful magnetic field and still they can cause the same type of effect with sudden onset of nausea and dizziness.

In search of these Earth signals, scientists have used some of the most sensitive, super-cooled magnetic sensors available to detect any extremely weak magnetic field changes but, to date, they have found nothing.

Scientists are using the intense external power of magnetic fields and pulsed radio waves in the MRI machine to reach into the atom and excite it into resonance. But they are not thinking of the already existing powerful electrostatic fields within the atoms themselves. No batteries required! The atom has its charge within.

The sudden onset of dizziness, nausea or other symptoms comes from within the atoms themselves. The signals from the Earth disrupt the existing powerful electrostatic fields of

the atoms. This is the secret to understanding the mysterious signals. The signals disrupt existing strong magnetic fields or existing strong electrostatic fields. The other secret is that the strength of the field and the density of the atoms (or tissue, in the human body sense) form a selective tuning to the type of Earth signal. This is why some people experience the symptoms differently or not at all.

Modern electronics uses the same tuning principle in a device called a "varactor" diode. Its name comes from "voltage-variable capacitor". The voltage or charge across this device changes its tuning in a precise manner by moving a charge barrier in the doped silicon of the diode. This is the same principle as that which governs how the cellular tissue of the human body can tune into the Earth signals. This is also the foundation to how the unique sensors are designed for detecting the Earth signals.^{5,6}

For scientists to start to see the true Earth precursors that sensitives respond to, the instruments and sensors have to have an existing field present. The strength of the field determines the tuning frequency of interest. The utility power grid forms an ideal antenna system since the energy of the power grid constantly stimulates an electromagnetic field. The Earth precursory emissions will change the 60-cycle power grid electric field itself and create the resulting signals of interest.

Science will face an interesting revelation on these signals. If we're to understand what the signals do, the foundation of our physics must look more deeply into the phenomenon of "the Lamb shift" as a wider coherent wave. The Lamb shift was discovered in the 1940s by physicist Willis Lamb.⁷ This phenomenon is where the atom changes the rules momentarily when the quantum states of the electron will shift in a linear amount instead of a quantum jump. In other words, the electron orbits shift outwards like a person breathing out, then back in.

Now imagine a signal that causes a large-scale breathing out and then in on trillions of atoms in the body. This signal is in the medium that is the foundation of particle physics itself. The explanation given in the Lamb shift is the capture and then reemission of a "virtual photon" in the atom. Scientists then get into the theory of quantum electrodynamics, as discussed by the great modern physicist Richard Feynman.⁸ This is the right path to understanding the nature of the earthquake precursor signals to which sensitives respond.

"Scalarbeamer" generates the same mysterious signals

Amateur experimentalists have stumbled across the true nature of these Earth signals by building a simple device called a "Scalarbeamer".⁹ What the experimentalists didn't realise is how biologically dangerous these emissions can be from a device such

as this. One experimenter induced extreme sedative effects, besides experiencing a "buzzing in the head" sensation while in the "beams", where he dropped into a sleep all day, all night and into the next day from a brief exposure to the narrow, xenon gas-amplified side "beam" that emanated from the sandwich layer of the pulse-stimulated "bucking" magnets. By changing the design a bit, the effects were changed to extreme stimulation-described by the experimenter as like having two to three cups of strong cappuccino or espresso. The most alarming event

was inducing complete numbness in the hand and the whole arm, which lasted for over an hour from just five minutes of experimenting.

I strongly caution any experimenters to be extremely careful with this device. Science will learn of this in time, but a level of "resonance poisoning" can be induced in biological tissue in these strong scalar types of emission fields. The Earth generates a much lower base frequency of these types of emissions, but the emissions also carry an harmonic content that reaches into the optical spectrum. It is the upper harmonics of these base emissions that cause "sensitives" to react and experience symptoms.

Biological equivalent sensors

Other amateur experimentalists are on the right track in designing sensors that detect these rare, mysterious Earth signals. The sensors are called "Barkhausen effect scalar detectors".¹⁰ These detectors look for small magnetic changes or sudden "flips" of magnetic domains in the polycrystalline structure of the detector's core material that is held in a very strong external magnetic field. They have heavy shielding to prevent outside radio waves or magnetic waves from disturbing the internal magnetic field. Thus, only waves that originate *within* the detector are able to disturb the internal magnetic field. Science today says these types of waves cannot exist. Yet they *do* exist.

Another version of these types of detectors is the "electrostatic

So what is the nature of these mysterious Earth signals? Is it sound, or is it an electrical pulsing in the ear's cellular tissue that mimics sound? field–based scalar sensor".¹¹ To date, these detectors are not perfected or understood by amateurs. However, these types of sensors are what the human body naturally has within its electric cellular structure. Strong electrostatic fields create migration of charge in cells and powers the exchange in the tissue from electrochemical gradients.

As a matter of fact, the human mitochondria cell contains one of the marvels of nature: a 12-pole motor-generator that can pump electrochemical charge in either direction.¹² Scientists call this marvel one of "the smallest motors known to science".¹³ The torque of this unique charge pump is so incredible that a spoonful of this protein motor generates as much torque as a Mercedes automobile engine! This cell can create very powerful volts per centimetre of electrochemical fields (or electrostatic equivalent).¹⁴ A 0.1-volt charge across a 5-nanometre cell membrane gives an electric field of 20 million volts per metre.¹⁵

These powerful fields are the ideal environment for interaction with a biological version of an electrostatic scalar detector. The Earth emissions interact with these pre-existing electrostatic fields in the ions at the atomic scale in either positively charged or negatively charged ions. This interaction creates the symptoms that "sensitives" experience.

Modern Electrostatic Scalar Detector

After 13 years of development, a modern electrostatic scalar detector creates pristine viewing of the mysterious Earth signals. This detector is modelled after the same structure in the biological make-up of the human cell's electrochemical fields. The detector relies on a beamembedded charge into a teflon base material to create an equivalent 78,740 volts per centimetre of the precision electrostatic field. The head has a special

nickel alloy with a specific tension and thickness. Modulation of the electrostatic field by Earth signals creates a mechanical reaction in the tensioned drum alloy. Critical to the correct operation of this type of design is a ratio of charge, tension and density, forming a charge density ratio.

This sensor is put inside a shielded metal box that forms a Faraday shield against any outside radio waves or electrostatic fields. The shield box and sensor are placed in a heavy vault in the earth to provide for the best coupling to the Earth signals which like to travel near the surface, similarly to how the "skin effect" occurs in electrical conductors.

This type of electrostatic scalar detector can detect precursory emissions from the Earth in a radius of 800 to 1,000 kilometres. This device is what is currently used to monitor the Pacific Northwest. It is the equivalent of a round-the-clock human "sensitive".

A mobile version of the electrostatic scalar detector is based on a different form of an array of cells of tens of thousands of volts per centimetre that are impervious to vibration. This sensory system is used to map unknown faults in the Earth. Faults are strong emitters of these mysterious Earth signals. The strength of the fault emissions is proportional to the readings of the large antenna monitoring system. By driving over faults with a specially instrumented vehicle and this mobile sensor array, you can detect emissions that reveal which faults are resonating and how strongly. This same detector array allows triangulation of a pending epicentre, as the epicentral location will reveal itself with intermittent "chirps" in the emissions. Most chirps occur in an approximate 20 minutes to an hour interval spacing, one to three days prior to the earthquake. The periodic reception of the impulses along with the amplitude reveals which region the epicentral location is in.

It should be noted that these sensors are fully shielded in a Faraday shield or a Faraday cage. They do not react to radio waves or electrostatic or electromagnetic fields. Only the unique form of these waves that can penetrate a full Faraday cage is able to cause a signal to be detected. Again, science says these waves do not exist. In time, science will learn of the reality of these waves: longitudinal scalar waves.^{16, 17, 18, 19, 20, 21, 22}

Ridicule or Revelation?

Only by scientists discovering the existence of these real signals will the attitudes towards sensitives be changed. A bigger hurdle to earthquake scientists will then be trying to understand how these signals are generated in the first place. The existing brittle fracture theory has it that the rock is teetering on the edge of instability. How can the Earth know ahead of time how big the

> earthquake will be before it occurs? Sensitives know the magnitude in advance, thus the emissions reflect the size or the power of the pending earthquake.

There is much that mainstream science will learn after the ridicule is changed to excitement in discovering an underlying active physics, as the Earth is already communicating to "sensitives".²³

About the Author:

Larry A. Park is a principal engineer with 24 years of research and development experience in the high

technology semiconductor and computing industry in the "Silicon Forest" near Portland, Oregon, USA.

Larry started research into earthquake and volcanic precursors while working as a senior systems hardware engineer at a massively parallel supercomputer company not long after the Pacific Northwest was struck by a rare M5.6 earthquake in 1993 near Scotts Mills, Oregon. In 1994, while investigating rare failures of the supercomputer disc array power modules, unusual energy impulses were discovered coming through the utility power grid and were severely damaging microelectronics in the power modules of the massively parallel supercomputer. Tracking these mysterious and rare energy bursts yielded insights into the development of unusual sensors that led to further insights of the unusual physics of these bursts. Larry has conducted a number of years of research into earthquakes and volcanic eruptions with this new technology in the Pacific Northwest and in the volcanic region of Long Valley Caldera in California.

Larry is author of the book *Forbidden Secrets of the Earthquake Revealed* (Terra Research, 2002). He is an inventor and holder of two earthquake precursor sensory system patents, with another pending as an ongoing R&D effort in this new field of technology, with patents funded privately through Terra Research.

Larry A. Park may be reached through the website http://www.terraresearch.net; click on "Contact".

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Endnotes

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